# BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

#### **DOCKET NO. 2021-3-E**

In the Matter of:	)	
	)	
Annual Review of Base Rates	)	REBUTTAL TESTIMONY OF
for Fuel Costs for	)	BRYAN L. SYKES FOR
Duke Energy Carolinas, LLC, Increasing	)	<b>DUKE ENERGY CAROLINAS, LLC</b>
Residential and Non-Residential Rates	)	

1	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT
2		POSITION.
3	A.	My name is Bryan L. Sykes. My business address is 550 South Tryon Street, Charlotte, NC
4		28202. I am a rates manager supporting both Duke Energy Carolinas, LLC (the "Company")
5		and Duke Energy Progress, LLC in rider related filings.
6	Q.	DID YOU PREVIOUSLY FILE TESTIMONY IN THIS DOCKET?
7	A.	Yes, I filed both direct testimony and supplemental direct testimony in this docket.
8	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
9	A.	The purpose of my rebuttal testimony is to respond to pre-filed direct testimony filed by Office
10		of Regulatory Staff ("ORS") witness Anthony Briseno related to the estimated cumulative
11		DERP avoided costs over-recovery balance through September 2021, which contained a
12		formula error resulting in the over-recovery balance through September 2021 being
13		understated by \$2,325.
14	Q.	DO YOU AGREE WITH THE ESTIMATED CUMULATIVE OVER-RECOVERY
15		BALANCE THROUGH SEPTEMBER 2021 PROPOSED BY ORS ON PAGES 16-17
16		OF MR. BRISENO'S DIRECT TESTIMONY?
17	A.	Yes. As explained on pages 16-17 of Mr. Briseno's testimony, ORS identified that the
18		estimated cumulative over-recovery balance through September 2021 of \$176,584 as reported
19		in Sykes Amended Exhibit 12, pages 2 through 6 is understated by \$2,325 due to a formula
20		error for South Carolina Projected Residential kWh sales (w/solar) for the month of June 2021
21		in the Estimated Period. The correct over-recovery balance for DERP avoided costs should

22

23

be \$178,909 as stated by Mr. Briseno.

- 1 Q. DOES THIS CORRECTION CHANGE THE DERP AVOIDED COST
- 2 **COMPONENT OF THE OVERALL FUEL FACTOR?**
- 3 A. No. This correction does not change the DERP avoided cost component of the overall fuel
- 4 factor because the correction results in a small dollar impact in the estimated cumulative over-
- 5 recovery balance.
- 6 Q. ARE YOU FILING REVISED EXHIBITS TO INCORPORATE ORS'S PROPOSED
- 7 **ADJUSTMENT?**
- 8 A. Yes, for the benefit of the record, I am filing Sykes Rebuttal Exhibit 12 to incorporate the
- 9 proposed adjustment.
- 10 Q. DOES THIS CONCLUDE YOUR PRE-FILED REBUTTAL TESTIMONY?
- 11 A. Yes, it does.

Sykes Rebuttal Exhibit 12 Page 1 of 6 Docket No 2021-3-E

### DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2020 - SEPTEMBER 2022

Line No.

Residential

 1
 2019 Firm Coincident Peak CP %
 40.90%

 2
 2020 Firm Coincident Peak CP %
 43.87%

Line No	. Description	Reference		June 2020	July 2020	August 2020	September 2020	October 2020	November 2020
3	Purchased Power Agreements		Ś	98,663 \$	12,369	\$ 114,940 \$	50,963	74,661 \$	56,092
4	Shared Solar Program			28,241	30,525	33,152	27,688	23,228	21,608
5	Total DERP Avoided Costs	Sum Lines 3 - 4	\$	126,904 \$	42,894	\$ 148,092 \$	78,652	97,889 \$	77,700
6	Total System kWh Sales	Exhibit 2, page 1		6,734,780,109	8,102,605,011	8,443,024,842	7,621,343,554	6,216,478,500	7,066,717,933
7	DERP Avoided System Cost - (¢/kWh)	Line 5 / Line 6* 100		0.0019	0.0005	0.0018	0.0010	0.0016	0.0011
8	SC Retail Sales kWh	Exhibit 2, page 1		1,623,613,976	1,916,998,453	2,010,846,771	1,877,139,122	1,509,190,428	1,758,086,136
9	SC DERP Avoided Costs	Line 7 / 100 * Line 8	\$	30,594 \$	10,148	\$ 35,270 \$	19,372 \$	23,765 \$	19,330
10	Residential DERP Avoided Costs Allocated by Firm CP	Line 9 * Line 1	\$	12,513 \$	4,151	\$ 14,426 \$	7,923	9,720 \$	7,906
11	SC Residential kWh Sales	Exhibit 4, page 1		531,862,162	707,354,351	738,300,056	626,104,018	404,250,903	422,236,888
12	SC Residential DERP Avoided Cost (¢/kWh)	Line 10 / Line 11 * 100		0.0024	0.0006	0.0020	0.0013	0.0024	0.0019
13	SC Residential Rate Billed (¢/kWh)	Company Records		0.0026	0.0026	0.0026	0.0026	0.0030	0.0034
14	SC DERP Avoided Cost (Over) / Under Recovery	( Line 12 - Line 13 ) * Line 11 / 100	\$	(1,315) \$	(14,240)	\$ (4,770) \$	(8,356) \$	(2,365) \$	(6,450)
15 16	(Over) / Under Cumulative Balance May 2020 Accounting Adjustment(s)	Prior Year Annual Filing	\$	(59,929)					
17	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$	(61,244) \$	(75,483)	\$ (80,253) \$	(88,609) \$	(90,974) \$	(97,423)

			December	January	February	March	April	May	Twelve Months
Line No	. Description	Reference	2020	2021	2021	2021	2021	2021	Ended May 2021
18	Purchased Power Agreements		\$ 25,100 \$	149,314 \$	56,285 \$	158,538 \$	211,147 \$	141,484 \$	1,149,557
19	Shared Solar Program		17,324	13,905	15,203	15,873	22,147	31,614	280,507
20	Total DERP Avoided Costs	Sum Lines 18 - 19	\$ 42,423 \$	163,219 \$	71,488 \$	174,411 \$	233,293 \$	173,099 \$	1,430,065
21	Total System kWh Sales	Exhibit 2, page 1	6,272,969,895	8,612,692,842	7,023,124,257	6,159,528,696	6,262,731,991	5,739,754,294	84,255,751,924
	•		0,272,909,893			0.0028			04,233,731,324
22	DERP Avoided System Cost - (¢/kWh)	Line 20 / Line 21* 100		0.0019	0.0010		0.0037	0.0030	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,386,684,247	2,046,721,244	1,610,951,313	1,377,957,373	1,468,606,143	1,396,012,579	19,982,807,784
24	SC DERP Avoided Costs	Line 22 / 100 * Line 23	\$ 9,378 \$	38,787 \$	16,398 \$	39,018 \$	54,707 \$	42,101 \$	338,869
25	Residential DERP Avoided Costs Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 3,836 \$	17,017 \$	7,194 \$	17,118 \$	24,001 \$	18,471 \$	144,277
26	SC Residential kWh Sales	Exhibit 4, page 1	574,708,890	727,413,286	575,946,759	566,001,840	463,487,443	390,767,385	6,728,433,981
27	SC Residential DERP Avoided Cost (¢/kWh)	Line 25 / Line 26 * 100	0.0007	0.0023	0.0012	0.0030	0.0052	0.0047	
28	SC Residential Rate Billed (¢/kWh)	Company Records	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	
29 30	SC DERP Avoided Cost (Over) / Under Recovery Accounting Adjustment(s)	(Line 27 - Line 28) * Line 26 / 100	\$ (15,704) \$	(7,715) \$	(12,388) \$	(2,126) \$	8,242 \$	5,185 \$ \$	(62,003)
31	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (113,128) \$	(120,843) \$	(133,231) \$	(135,357) \$	(127,115) \$	(121,931) \$	(121,931)

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## DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2020 - SEPTEMBER 2021

Line No.

Residential

 1
 2019 Firm Coincident Peak CP %
 40.90%

 2
 2020 Firm Coincident Peak CP %
 43.87%

Line No	. Description	Reference	Estimated June 2021	Estimated July 2021	Estimated August 2021	Estimated September 2021		Sixteen Months Ended September 2021
32	Purchased Power Agreements		\$ 303,446	\$ 301,482	\$ 293,383	\$ 253,320		2,301,187
33	Shared Solar Program		 25,563	25,374	24,717	 21,381	_	377,542
34	Total DERP Avoided Costs	Sum Lines 32-33	\$ 329,009	\$ 326,855	\$ 318,100	\$ 274,701	\$	2,678,729
35	Total Projected System Sales kWhs (w/solar)	Exhibit 2, page 2	7,208,136,051	8,271,350,711	8,670,278,197	8,040,495,325		116,446,012,208
36	DERP Avoided System Cost (¢/kWh)	Line 34 / Line 35* 100	0.0046	0.0040	0.0037	0.0034		
37	Projected SC Retail Sales kWh (w/solar)	Exhibit 2, page 2	1,712,434,485	1,995,059,533	2,115,058,217	1,995,845,841		27,801,205,860
38	SC DERP Avoided Costs	Line 36 / 100 * Line 37	\$ 78,163	\$ 78,838	\$ 77,599	\$ 68,187	\$	641,655
39	Residential DERP Avoided Costs Allocated by Firm CP	Line 38 * Line 2	\$ 34,292	\$ 34,588	\$ 34,044	\$ 29,916	\$	277,117
40	SC Projected Residential kWh Sales (w/solar)	Exhibit 4, page 2	558,821,464	656,906,123	701,106,219	628,335,508		9,273,603,294
41	SC Residential DERP Avoided Cost (¢/kWh)	Line 39 / Line 40 * 100	0.0061	0.0053	0.0049	0.0048		
42	SC Residential Rate Billed (¢/kWh)	Company Records	0.0034	0.0034	0.0034	0.0034		
43	SC DERP Avoided Cost (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ 15,292	\$ 12,253	\$ 10,207	\$ 8,552	\$	(15,698)
44	Accounting Adjustment(s)						\$	-
45	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 43-44 + PM Cum Bal	\$ (106,639)	\$ (94,385)	\$ (84,179)	\$ (75,626)	\$	(75,626)
46	SC Projected Residential Sales (October 2021-September 2022)	Exhibit 3						6,869,069,305
47	SC Residential DERP AC Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100						(0.0011)

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#### DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE

### CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2020 - SEPTEMBER 2021

Line No.

General Service / Lighting 28.31% 26.91%

2019 Firm Coincident Peak CP %
2020 Firm Coincident Peak CP %

Line No	. Description	Reference	June 2020	July 2020	August 2020	September 2020	_	October 2020	November 2020
3	Purchased Power Agreements		\$ 98,663	\$ 12,369	\$ 114,940	\$ 50,963	\$	74,661	\$ 56,092
4	Shared Solar Program		\$ 28,241	\$ 30,525	\$ 33,152	\$ 27,688	\$	23,228	\$ 21,608
5	Total DERP Avoided Costs	Sum Lines 3 - 4	\$ 126,904	\$ 42,894	\$ 148,092	\$ 78,652	\$	97,889	\$ 77,700
6	Total System kWh Sales	Exhibit 2, page 1	6,734,780,109	8,102,605,011	8,443,024,842	7,621,343,554		6,216,478,500	7,066,717,933
7	•	9	0,734,780,109						
,	DERP Avoided System Cost - (¢/kWh)	Line 5 / Line 6* 100		0.0005	0.0018	0.0010		0.0016	0.0011
8	SC Retail Sales kWh	Exhibit 2, page 1	1,623,613,976	1,916,998,453	2,010,846,771	1,877,139,122		1,509,190,428	1,758,086,136
9	SC DERP Avoided Costs	Line 7 / 100 * Line 8	\$ 30,594	\$ 10,148	\$ 35,270	\$ 19,372	\$	23,765	\$ 19,330
10	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 9 * Line 1	\$ 8,660	\$ 2,873	\$ 9,984	\$ 5,484	\$	6,727	\$ 5,472
11	SC General Service/Lighting kWh Sales	Exhibit 4, page 3	439,496,485	513,435,107	524,755,584	504,075,404		414,951,913	421,576,148
12	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 10 / Line 11 * 100	0.0020	0.0006	0.0019	0.0011		0.0016	0.0013
13	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records	0.0012	0.0012	0.0012	0.0012		0.0022	0.0033
14	SC DERP Avoided Cost (Over) / Under Recovery	( Line 12 - Line 13 ) * Line 11 / 100	\$ 3,386	\$ (3,288)	\$ 3,687	\$ (565)	\$	(2,494)	\$ (8,440)
15	(Over) / Under Cumulative Balance May 2020	Prior Year Annual Filing	\$ (26,225)						
16	Accounting Adjustment(s)		( -, -,						
17	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$ (22,839)	\$ (26,126)	\$ (22,439)	\$ (23,004)	\$	(25,499)	\$ (33,939)

Line No	Description	Reference	December 2020	January 2021	February 2021		March 2021	April 2021	May 2021	welve Months ded May 2021
18	Purchased Power Agreements		\$ 25,100	\$ 149,314	\$ 56,285 \$	5	158,538	\$ 211,147	\$ 141,484	\$ 1,149,557
19	Shared Solar Program		\$ 17,324	\$ 13,905	\$ 15,203 \$	5	15,873	\$ 22,147	\$ 31,614	280,507
20	Total DERP Avoided Costs	Sum Lines 18 - 19	\$ 42,423	\$ 163,219	\$ 71,488 \$	<b>&gt;</b>	174,411	\$ 233,293	\$ 173,099	\$ 1,430,064
21	Total System kWh Sales	Exhibit 2, page 1	6,272,969,895	8,612,692,842	7,023,124,257	6,1	59,528,696	6,262,731,991	5,739,754,294	84,255,751,924
22	DERP Avoided System Cost - (¢/kWh)	Line 20 / Line 21* 100	0.0007	0.0019	0.0010		0.0028	0.0037	0.0030	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,386,684,247	2,046,721,244	1,610,951,313	1,3	77,957,373	1,468,606,143	1,396,012,579	19,982,807,784
24	SC DERP Avoided Costs	Line 22 / 100 * Line 23	\$ 9,378	\$ 38,787	\$ 16,398 \$	5	39,018	\$ 54,707	\$ 42,101	\$ 338,869
25	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 2,655	\$ 10,438	\$ 4,413 \$	5	10,500	\$ 14,722	\$ 11,329	\$ 93,256
26	SC General Service/Lighting kWh Sales	Exhibit 4, page 3	385,907,343	456,875,444	381,610,808	3	92,520,450	386,168,289	381,909,477	5,203,282,451
27	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 25 / Line 26 * 100	0.0007	0.0023	0.0012		0.0027	0.0038	0.0030	
28	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records	0.0033	0.0033	0.0033		0.0033	0.0033	0.0033	
29 30	SC DERP Avoided Cost (Over) / Under Recovery Accounting Adjustment(s)	(Line 27 - Line 28) * Line 26 / 100	\$ (10,080)	\$ (4,639)	\$ (8,180) \$	5	(2,453)	\$ 1,978	\$ (1,274)	\$ (32,362)
31	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (44,019)	\$ (48,658)	\$ (56,839) \$	5	(59,292)	\$ (57,314)	\$ (58,587)	\$ (58,587)

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## DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2020 - SEPTEMBER 2021

Line No.

General Service / Lighting

2019 Firm Coincident Peak CP % 2020 Firm Coincident Peak CP % 28.31% 26.91%

Line No.	. Description	Reference		Estimated June 2021		Estimated July 2021		Estimated August 2021		Estimated September 2021	Sixteen Months Ended September 2021
32	Purchased Power Agreements		Ś	303,446	Ś	301,482	Ś	293,383	Ś	253,320	\$ 2,301,187
33	Shared Solar Program		\$	25,563		25,374		24,717			\$ 377,542
34	Total DERP Avoided Costs	Sum Lines 32-33	\$	329,009	\$	326,855	\$	318,100	\$	274,701	\$ 2,678,729
35	Total Projected System Sales kWhs (w/solar)	Exhibit 2, page 2		7,208,136,051		8,271,350,711		8,670,278,197		8,040,495,325	116,446,012,208
36	DERP Avoided System Cost (¢/kWh)	Line 34 / Line 35* 100		0.0046		0.0040		0.0037		0.0034	
37	Projected SC Retail Sales kWh	Exhibit 2, page 2		1,712,434,485		1,995,059,533		2,115,058,217		1,995,845,841	27,801,205,860
38	SC DERP Avoided Costs	Line 36 / 100 * Line 37	\$	78,163	\$	78,838	\$	77,599	\$	68,187	\$ 641,655
39	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 38 * Line 2	\$	21,034	\$	21,215	\$	20,882	\$	18,349	\$ 174,737
40	SC General Service/Lighting kWh Sales	Exhibit 4, page 4		445,783,207		554,692,679		574,608,275		547,219,382	7,325,585,995
41	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 39 / Line 40 * 100		0.0047		0.0038		0.0036		0.0034	
42	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records		0.0033		0.0033		0.0033		0.0033	
43	SC DERP Avoided Cost (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$	6,323	\$	2,911	\$	1,920	\$	291	\$ (20,918)
44	Accounting Adjustment(s)										\$ -
45	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 43-44 + PM Cum Bal	\$	(52,264)	\$	(49,354)	\$	(47,434)	\$	(47,143)	\$ (47,143)
46	SC Projected General Service / Lighting Sales (October 2021 - September 2022)	Exhibit 3									5,852,891,838
47	SC General Service/Lighting DERP AC Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100									(8000.0)

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#### DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE

### CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2020 - SEPTEMBER 2021

Line No.

 1
 2019 Firm Coincident Peak CP %
 30.79%

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 29.22%

Line No	Description	Reference	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020
3	Purchased Power Agreements		\$ 98,663	\$ 12,369	\$ 114,940	\$ 50,963	\$ 74,661	\$ 56,092
4	Shared Solar Program		\$ 28,241	\$ 30,525	\$ 33,152	\$ 27,688	\$ 23,228	\$ 21,608
5	Total DERP Avoided Costs	Sum Lines 3-4	\$ 126,904	\$ 42,894	\$ 148,092	\$ 78,652	\$ 97,889	\$ 77,700
6	Total System kWh Sales	Exhibit 2, page 1	6,734,780,109	8,102,605,011	8,443,024,842	7,621,343,554	6,216,478,500	7,066,717,933
7	DERP Avoided System Cost - (¢/kWh)	Line 5 / Line 6* 100	0.0019	0.0005	0.0018	0.0010	0.0016	0.0011
8	SC Retail Sales kWh	Exhibit 2, page 1	1,623,613,976	1,916,998,453	2,010,846,771	1,877,139,122	1,509,190,428	1,758,086,136
9	SC DERP Avoided Costs	Line 7 / 100 * Line 8	\$ 30,594	\$ 10,148	\$ 35,270	\$ 19,372	\$ 23,765	\$ 19,330
10	Industrial DERP Avoided Costs Allocated by Firm CP	Line 9 * Line 1	\$ 9,420	\$ 3,125	\$ 10,860	\$ 5,965	\$ 7,317	\$ 5,952
11	SC Industrial kWh Sales	Exhibit 4, page 5	652,255,329	696,208,995	747,791,131	746,959,700	689,987,612	914,273,100
12	SC Industrial DERP Avoided Cost (¢/kWh)	Line 10 / Line 11 * 100	0.0014	0.0004	0.0015	0.0008	0.0011	0.0007
13	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0007	0.0007	0.0007	0.0007	0.0015	0.0024
14	SC DERP Avoided Cost (Over) / Under Recovery	( Line 12 - Line 13 ) * Line 11 / 100	\$ 4,854	\$ (1,748)	\$ 5,625	\$ 736	\$ (3,223)	\$ (15,991)
15 16	(Over) / Under Cumulative Balance May 2020 Accounting Adjustment(s)	Prior Year Annual Filing	\$ (31,447)					
17	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$ (26,593)	\$ (28,339)	\$ (22,716)	\$ (21,979)	\$ (25,201)	\$ (41,193)

Line No	. Description	Reference	December 2020	January 2021	February 2021	March 2021	April 2021	May 2021		velve Months ded May 2021
18	Purchased Power Agreements		\$ 25,100	\$ 149,314	\$ 56,285	\$ 158,538	\$ 211,147	\$ 141,484	\$	1,149,557
19	Shared Solar Program		\$ 17,324	\$ 13,905	\$ 15,203	\$ 15,873	\$ 22,147	\$ 31,614		280,507
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24	SC DERP Avoided Costs	Line 22 / 100 * Line 23	\$ 9,378	\$ 38,787	\$ 16,398	\$ 39,018	\$ 54,707	\$ 42,101	\$	338,869
25	Industrial DERP Avoided Costs Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 2,888	\$ 11,333	\$ 4,791	\$ 11,400	\$ 15,984	\$ 12,301	\$	101,335
26	SC Industrial kWh Sales	Exhibit 4, page 5	426,068,014	862,432,514	653,393,746	419,435,083	618,950,411	623,335,717		8,051,091,352
27	SC Industrial DERP Avoided Cost (¢/kWh)	Line 25 / Line 26 * 100	0.0007	0.0013	0.0007	0.0027	0.0026	0.0020		
28	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024		
29 30	SC DERP Avoided Cost (Over) / Under Recovery Accounting Adjustment(s)	(Line 27 - Line 28) * Line 26 / 100	\$ (7,338)	\$ (9,365)	\$ (10,890)	\$ 1,334	\$ 1,129	\$ (2,659)	\$ \$	(37,536) -
31	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (48,531)	\$ (57,895)	\$ (68,786)	\$ (67,451)	\$ (66,322)	\$ (68,982)	\$	(68,982)

Sykes Rebuttal Exhibit 12 Page 6 of 6 Docket No 2021-3-E

## DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2020 - SEPTEMBER 2021

Line No.

 Industrial

 1
 2019 Firm Coincident Peak CP %
 30.79%

 2
 2020 Firm Coincident Peak CP %
 29.22%

Line No.	o. Description Reference		Estimated June 2021	Estimated July 2021	Estimated August 2021	Estimated September 2021	_	ixteen Months Ended eptember 2021
32	Purchased Power Agreements		\$ 303,446	\$ 301,482	\$ 293,383	\$ 253,320	\$	2,301,187
33	Shared Solar Program		25,563	25,374	24,717	21,381	\$	377,542
34	Total DERP Avoided Costs	Sum Lines 32-33	\$ 329,009	\$ 326,855	\$ 318,100	\$ 274,701	\$	2,678,729
35	Total System kWh Sales	Exhibit 2, page 2	7,208,136,051	8,271,350,711	8,670,278,197	8,040,495,325		116,446,012,208
36	DERP Avoided System Cost - (¢/kWh)	Line 34 / Line 35* 100	0.0046	0.0040	0.0037	0.0034		0.0023
37	SC Retail Sales kWh	Exhibit 2, page 2	1,712,434,485	1,995,059,533	2,115,058,217	1,995,845,841		27,801,205,860
38	SC DERP Avoided Costs	Line 36 / 100 * Line 37	\$ 78,163	\$ 78,838	\$ 77,599	\$ 68,187	\$	641,655
39	Industrial DERP Avoided Costs Allocated by Firm CP	Line 38 * Line 2	\$ 22,837	23,034	22,672	19,922		189,801
40	SC Industrial kWh Sales	Exhibit 4, page 6	707,829,814	783,460,731	839,343,723	820,290,951		11,202,016,571
41	SC Industrial DERP Avoided Cost (¢/kWh)	Line 39 / Line 40 * 100	0.0032	0.0029	0.0027	0.0024		
42	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0024	0.0024	0.0024	0.0024		
43	SC DERP Avoided Cost (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ 5,849	\$ 4,231	\$ 2,528	\$ 236	\$	(24,692)
44	Accounting Adjustment(s)						\$	-
45	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 43-44 + PM Cum Bal	\$ (63,133)	\$ (58,901)	\$ (56,373)	\$ (56,138)	\$	(56,138)
46	SC Projected Industrial Sales (October 2021 - September 2022)	Exhibit 3						9,070,560,880
47	SC Industrial DERP AC Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100						(0.0006)